

AMENDMENTS TO THE SPECIFICATION

BRIEF SUMMARY OF THE INVENTION

Please replace paragraph [0003] with the following amended paragraph:

[0003] It is therefore the an object of the invention to provide an improved method for detecting a differential pressure or for correcting a pressure value detected in a fluid on the basis of a pressure of a surrounding medium, as well as a corresponding pump system which permit a simplified construction of the pump system.

Please replace paragraph [0004] with the following amended paragraph:

[0004] This object is achieved by a method with the features of detecting a differential pressure or for correcting a pressure value detected in a fluid on the basis of another pressure, wherein at one point in time one detects a first pressure and another point in time a second pressure, and the second pressure is corrected on the basis of the first pressure. specified in claim 1, The object may also be achieved by a pump system with the features specified in claim 14 with a level sensor which comprises a pressure sensor for determining an absolute pressure, and a control means which switches the pump on and/or off in dependence on the readings of the level sensor, wherein the pump comprises a calibration means which controls the pump such that for calibration a fluid level is lowered below the level of the pressure sensor so that this detects the pressure of the surroundings as well as by the use of a pressure sensor with the features specified in claim 20. Preferred embodiment forms are to be deduced from the accompanying dependent claims. of a pressure sensor impinged on one side in a pump system, wherein the pressure sensor only has electrical connection conduits.

Please add the following new paragraph after paragraph [0004].

[0004.1] Other preferred embodiment forms are to be deduced from the accompanying dependent claims.

Please replace [0005] with the following amended paragraph:

[0005] The method according to the invention serves for detecting a differential pressure or for correcting a pressure value detected in a fluid on the basis of the pressure of a surrounding medium, wherein with this, there is formed a pressure difference between a first and a second pressure, for example, of the surrounding medium. According to the invention at one point in time a first pressure and at another point in time a second pressure is detected. Subsequently the second pressure value is corrected on the basis of the first pressure, wherein preferably a pressure difference between the two detected pressure values is evaluated. This method according to the invention thus allows a pressure sensor to detect absolute values only, but at two different points in time, in order to determine a pressure difference. Thus a differential pressure sensor which is impinged on two sides may be done away with. The method according to the invention permits the evaluation of a pressure difference with a sensor impinged on one side. This has the further advantage that in such a sensor which usually comprises a membrane, the detection electronics may be arranged on a side of the membrane which is not impinged by pressure. This simplifies the insulation or sealing of the electronics with respect to the fluid in which the pressure is to be determined. A simplified sensor construction is thus possible.

Please add the following new paragraph after paragraph [0024].

[0024.1] These and other objects and advantages of the invention will be apparent from the following description, the accompanying drawings and the appended claims.

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Please add the following new paragraph after paragraphs [0038].

[0038.1] While the system and method described, constitute preferred embodiments of this invention, it is to be understood that the invention is not limited to this precise system and method, and that changes may be made in either without departing from the scope of the inventions, which is defined in the appended claims.

[0038.2] What is claimed is: